



Gifu Anaerobic Broth w/o starch and dextrose

M5397

Intended Use:

Recommended as a general culture medium for cultivation and isolation of anaerobic bacteria and to test their susceptibility to antibiotics other than sulpha drugs.

Composition**

Ingredients	g / L
Peptone	10.000
Soya Peptone	3.000
Proteose peptone	10.000
Digested serum	13.500
Yeast extract	5.000
HM peptone B #	2.200
HL extract##	1.200
Potassium dihydrogen phosphate	2.500
Sodium chloride	3.000
L-Cysteine hydrochloride	0.300
Final pH (at 25°C)	7.3±0.1

**Formula adjusted, standardized to suit performance parameters

Equivalent to Beef extract

Equivalent to Liver extract

Directions

Suspend 51.0 grams in 1000 ml purified/distilled water. Heat if necessary to dissolve the medium completely. Dispense into tubes or flasks or as desired. Sterilize by autoclaving at 10 lbs pressure (115°C) for 15 minutes.

Principle And Interpretation

Gifu Anaerobic Broth w/o starch and dextrose medium is for identification and strain preservation of anaerobic bacteria. Ingredients as digested serum containing hemin favours growth of fastidious anaerobic organisms such as streptococci, pneumococci and meningococci. This medium is also suitable for tests of various biochemical properties and motility studies (1). Anaerobic organisms require reducing condition and an absence of dissolved oxygen in the medium. Strict anaerobes obtain its energy and intermediates through oxidation utilizing hydrogen acceptors other than oxygen. Pre-reducing the medium by boiling to drive off the oxygen can expel this (2). Anaerobic bacteria vary in their sensitivity to oxygen and nutritional requirements (3). Peptone, soya peptone, proteose peptone, HM peptone B, HL extract and yeast extract provide nitrogen, carbon and vitamin source. L-Cysteine hydrochloride acts as a reducing agent and favours growth of anaerobic organisms. Sodium chloride maintains osmotic equilibrium (4).

Type of specimen

Clinical samples - wound samples.

Specimen Collection and Handling:

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (2,5).

After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions :

In Vitro diagnostic use. For professional use only. Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling clinical specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.
2. Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

Quality Control

Appearance

Light yellow to brownish yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Amber coloured Clear solution (may have slight precipitate) forms in tube

Reaction

Reaction of 5.1% w/v aqueous solution at 25°C.

Cultural Response

Cultural characteristics observed in an anaerobic atmosphere after an incubation at 35-37°C for 48 - 72 hours.

Organism	Inoculum (CFU)	Growth
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good - luxuriant
<i>Phocaeicola vulgatus</i> ATCC 8482	50-100	good - luxuriant
<i>Clostridium sporogens</i> ATCC 11437	50-100	good - luxuriant
<i>Clostridium perfringens</i> ATCC 13124 (00007*)	50-100	good - luxuriant

Key : (*) Corresponding WDCM numbers.

\$\$ Formerly known as *Bacteroides vulgatus*

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and use freshly prepared medium. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques (2,5).

Reference

1. Nissui Manual, Microbiological products Nissui Pharmaceutical Co., 1983.
2. Isenberg, H.D. (2nd Ed.), Clinical Microbiology Procedures Handbook, American Society for Microbiology, Washington, D.C.
3. Collee J.G., Fraser A.G., Marminon B.P., Simmons A., (Eds), 1996, Mackie and McCartney. Practical Medical Microbiology, 14th Ed., Churchill Livingstone.
4. Gibbons R.J., and MacDonald J.B., 1960, J. Bacteriol, 80:164-170
5. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W.(2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

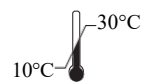
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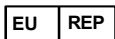
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